## ENGINEERING NOTEBOOK ATARI\*\*



## **ENGINEERING NOTEBOOK**

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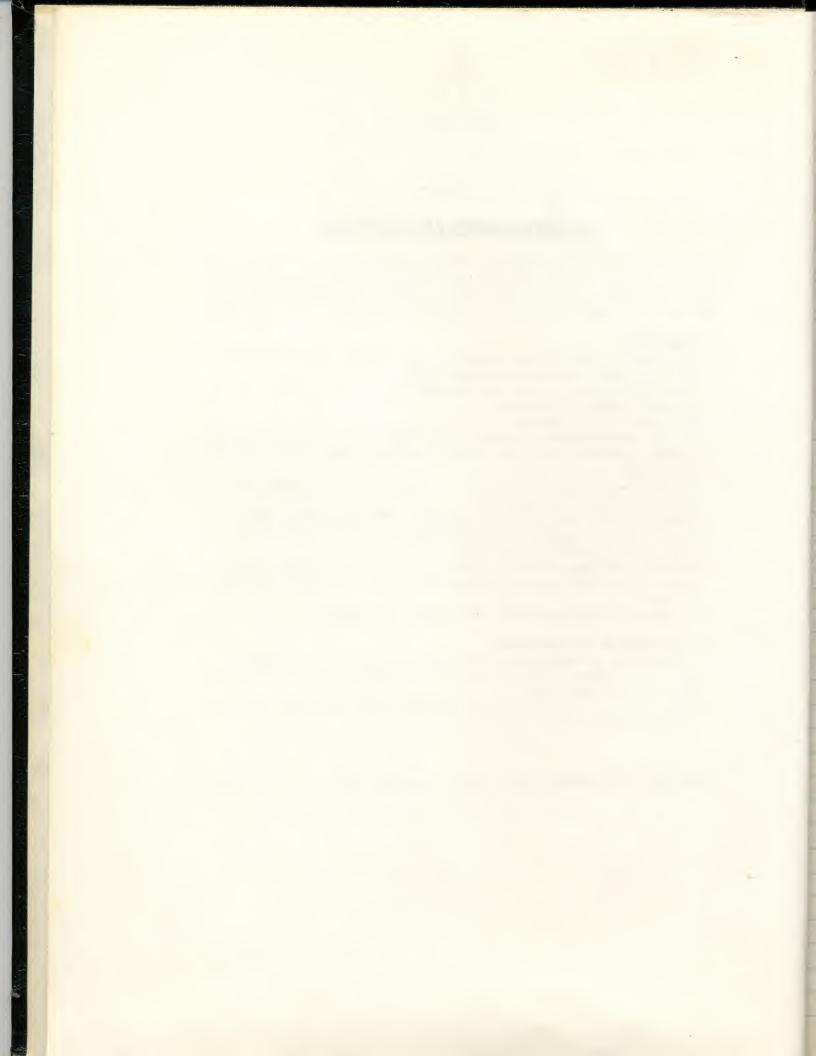
## **INSTRUCTIONS**

- 1. All engineering notes, sketches, schematics, etc., are to be recorded in this book. *Glue* any inserts into the book, do not use tape.
- 2. Complete each sheet in its entirety, but start a new sheet on every new day that you wish to record information.
- 3. Date and sign each log sheet.
- 4. All log sheets containing information that might have particular significance must be signed and dated by one witness who reads the sheet and understands its contents.
  - NOTE: If there are co-inventors, both should sign in the area marked WRITER, and a third party is required to sign as witness.
- 5. UNDER NO CIRCUMSTANCES MAY ANY PAGE BE REMOVED FROM THIS BOOK.
- 6. When copies are required, the entire book is to be submitted to the duplicating room, where the specified pages will be reproduced.
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- 8. If changes to a page are made, initial and date the changes.

## TIPS ON HOW TO USE THIS BOOK:

- 1. Use black ink. Do not use blue ink or pencil; it is difficult to reproduce.
- 2. Do not try to erase. If revisions or changes are necessary, cross out and rewrite. See item 8 of instructions.
- 3. Clarity is essential but precision drawings are not required; therefore, free-hand sketches are acceptable.

Book No. \_\_\_ Assigned to Joe Decuir



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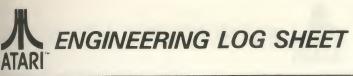
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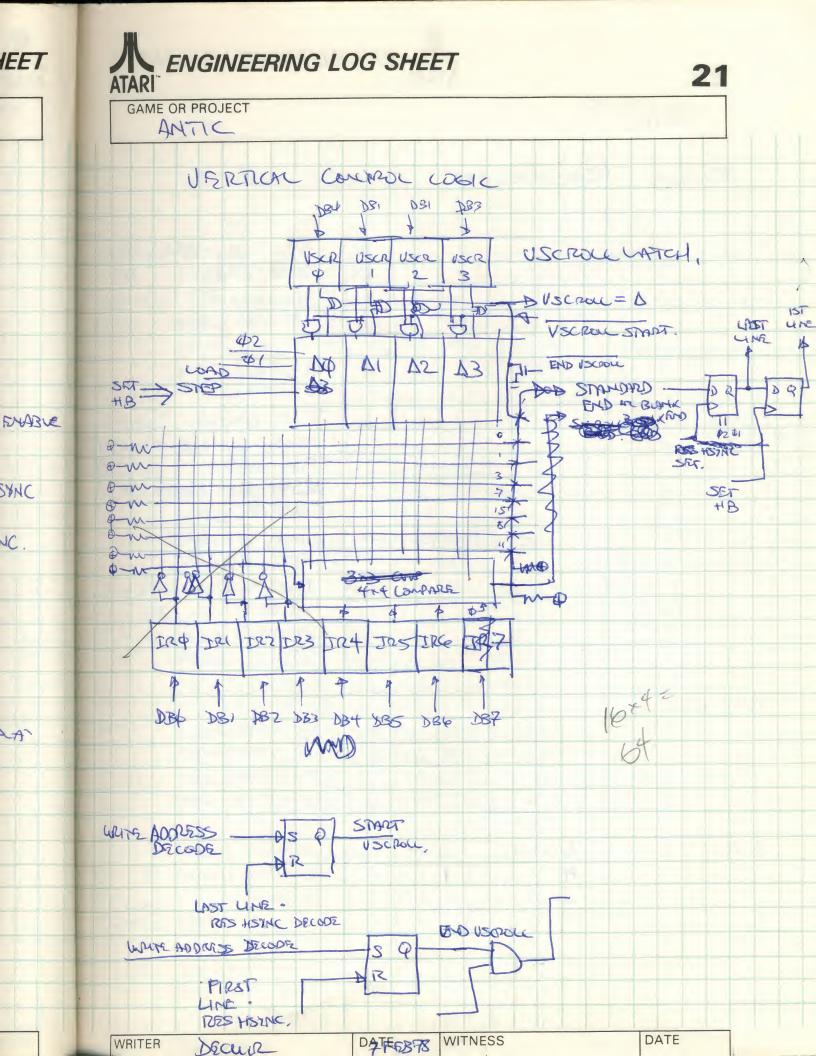
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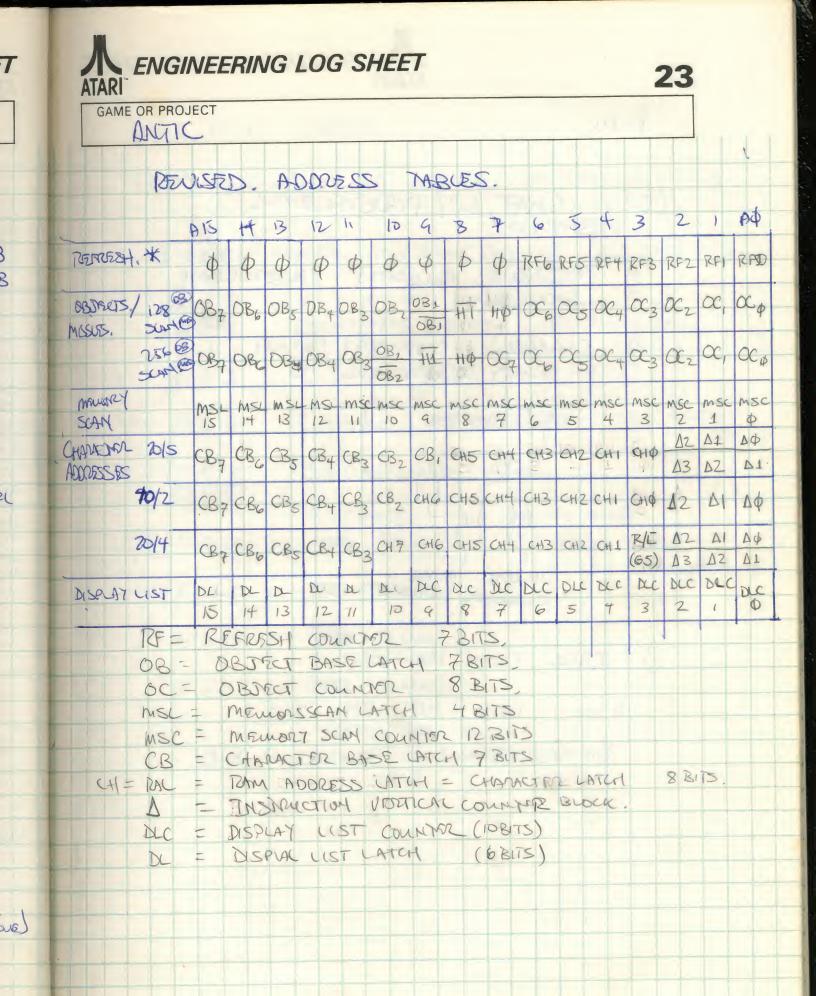
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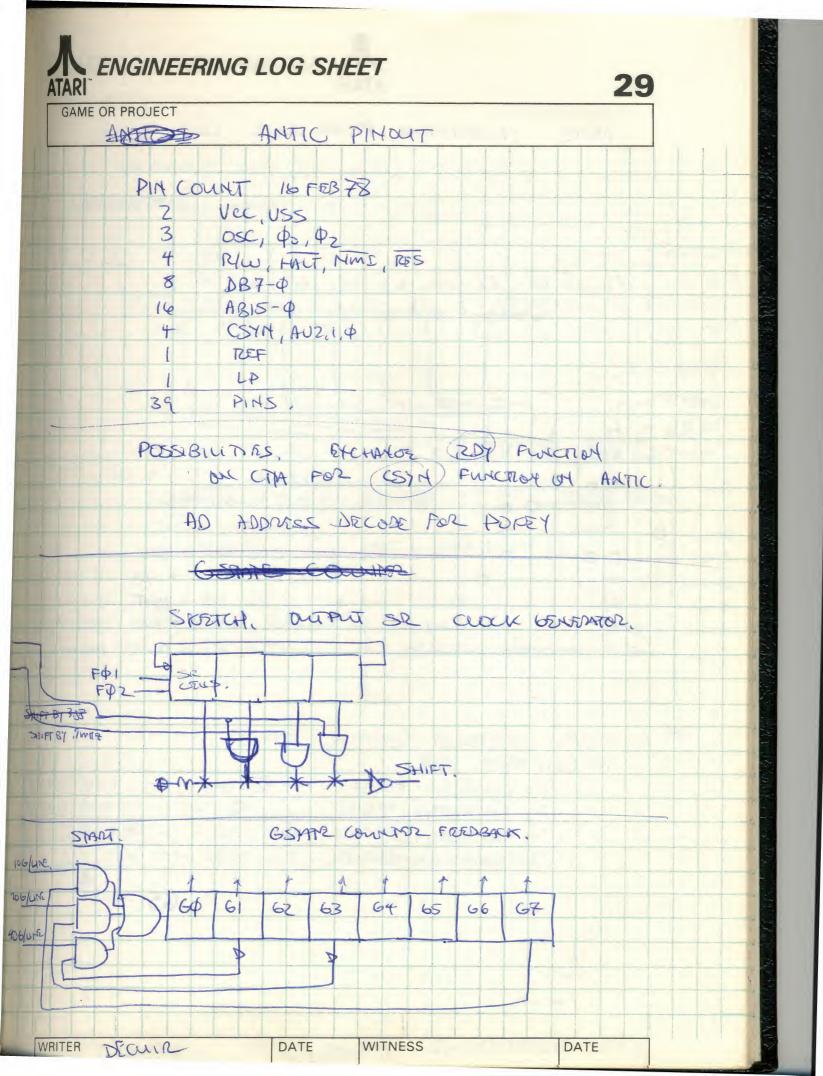
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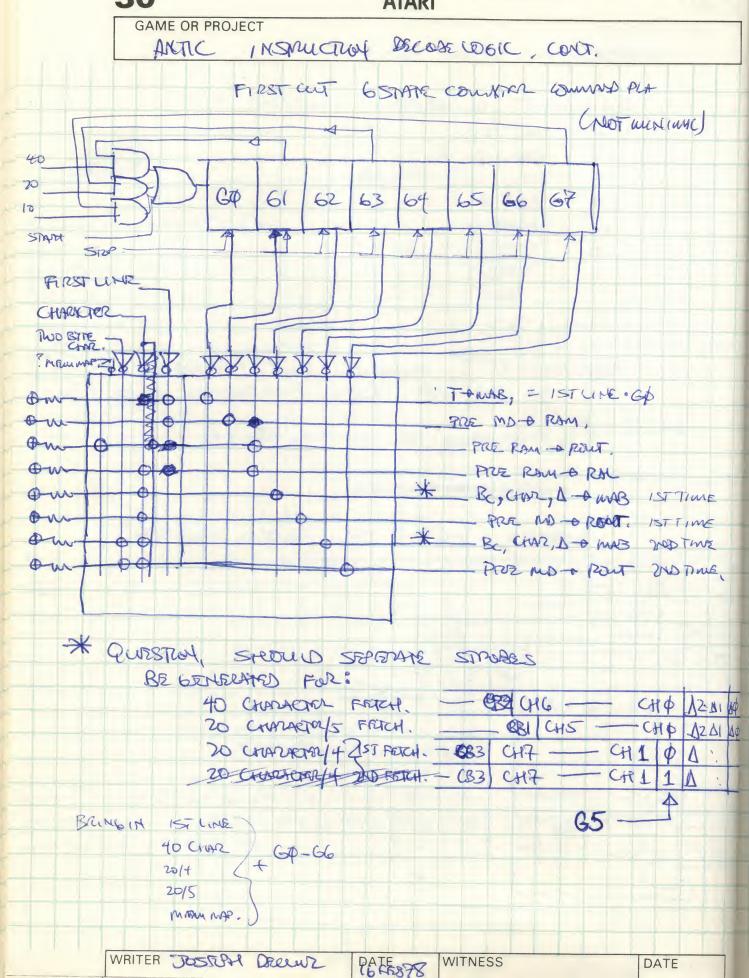
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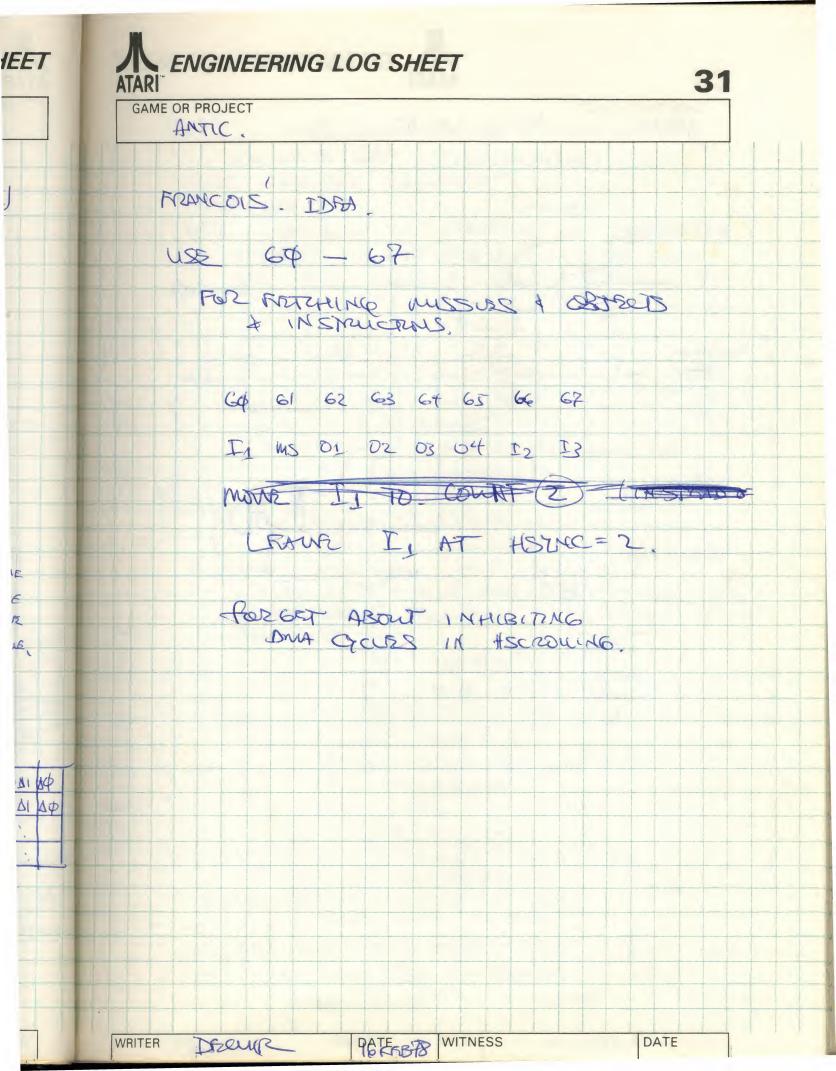


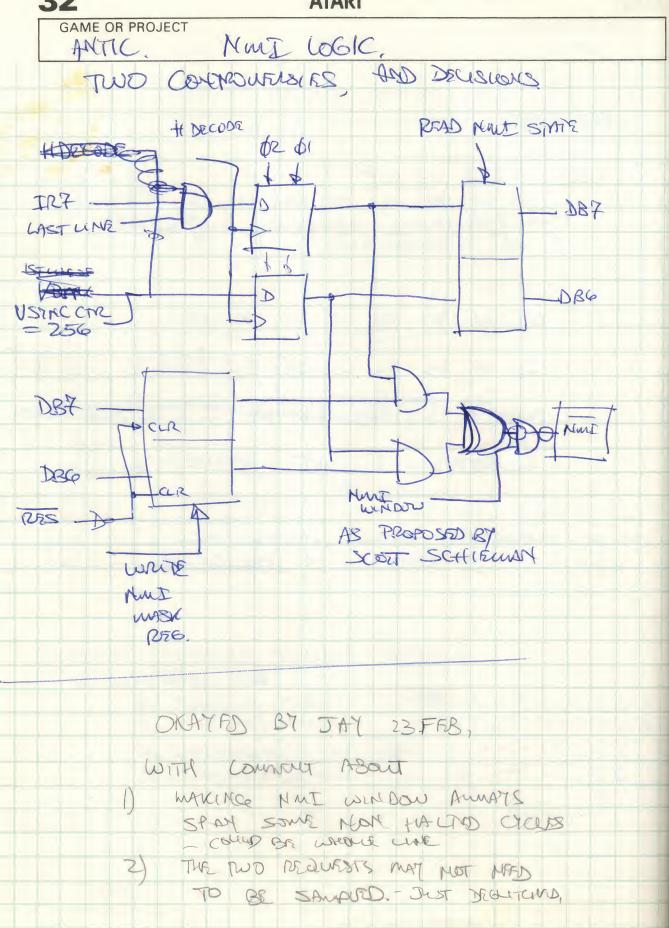
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10 9 STRE TRUCK,  WORLD COSTRE FROM  WORLD COSTRE  WORLD C		7	car.			
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MONE COSTRC PLACTURE FROM  TIAZ TO AUTK. THE TOTAL						
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GAME OR PROJECT

ANTIC CONTINED

SO - THE SISSUE IS REPAIRED ABOUT

WRATHER OR NOT THE MAN CAN TOLERAME BEING HAIMS FOR MOST OF A LINE. IF ON THE FIRST WHE, THE ANTIC DMA'S BOTH CHARACTERS AND CHARACTER BOTH GRAPANCS, IT WOULD LOCK OUT THE MPU, AND ANTIC RAM REFRESH.

THE MPH WOLD BE TELD A MAYMUM OF 48+48 CHCLES+1 PEFFERSH CYCLE -

97 × 2 = 54.2 µsec. = 1 3.57545 MHZ = 54.2 µsec. = 18450 HZ

IF THE DYNAMIC STOMER MOSS IN THE MPH CAN POLEMENTS TOUT -WE CAM USE HOS ELLENTE CUE CAM PROCESS TO EXAMINE THE CONSEQUENCES OF LOST REFRESH CYCLES TO THE DENAME RAMS

ORDINARLY, THE ANTIC GENERATES 5 RUTTURSH CYCLES / HOW FORTH LLIVE. HENCE, THE REFUESH FOUND FOR 64 ADDRESSES IS:

> 64 x 278 = 815 µsec. < 100 psec spec. FOR HE DINAMIC RAMS,

39

**GAME OR PROJECT** ANTIC. ACTUBLY, A WORST CASE WOULD BE 823.57 usec. 134 228 - 16 Wysec. 59 60 b1 62 (63) LINE X Xut ( 01234 3.579545 567.89 x+2 SO FAR, SO GODD. 50525354 554 BUT, SUPPOSE Some OF x+11 33 57 58 51 2 THUSSE REFRESH CYCLES X+12 6061 (3)(3) GUT LOST - 4 CYCLUS X+13 GET LOST FLUERY 8TH LINE. 5 60 61 67 63) LINE X 3 A FIRST LINE 1+9 12345 X+2 678910 CHARACTOR 11 12 13 14 15 2011-ANCO 5 1617 18 19 20 DING ONLY. 7177 7324 75 6 7 26 17 18 79 30 31 32 33 34 35 9 3 AFIDSTUNZ 36 37 38 39 40 41 10 15×228 - 3×46 = 942 µsec. 11 7243 444546 12 47 48 49 50 51 13 5253 54 5556 STILL SAFE 5758516061 14 PS (2) (4) 15 IF NO ISCROLLULE -3416 INCOMES TOR "FIRST LINE" Fres quartey.

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GAME OR PROJECT ANTIC

> A \$ SMANT OR FULL VSCROLL to comes possibly DriAT THE 64th ADDRESS 4 MORE - 20 , EURONIN BERTH Contribution Tour DAGRAM FROM p 39

SZ 55 55 55 56 } KENDEL FURSTLINE. UME X+13 x+14 58 59 60 61 62 x+ 15 63L X+16

> 16×228 - 5×16 = 996,794 3.579545 - JUST COUTS IT!

NOW, THE ABOUR DISCUSSION PROSSUMES THAT A FIRST LINE KNOWS OUT ALL 4 REFRISHES, IF THE REFRESH WIMDOWS ARE CHOSEN TO BE IN HOUTSUME SURRECAN, LESS WOULD BE LOST IF WE WERE HOT IN 48 CHARACTER MODE. - 40 WOULD STUR 1 OR 2. 37 would save more. -This would invact which DECODES ARE CHOSEN FOR REPURST,

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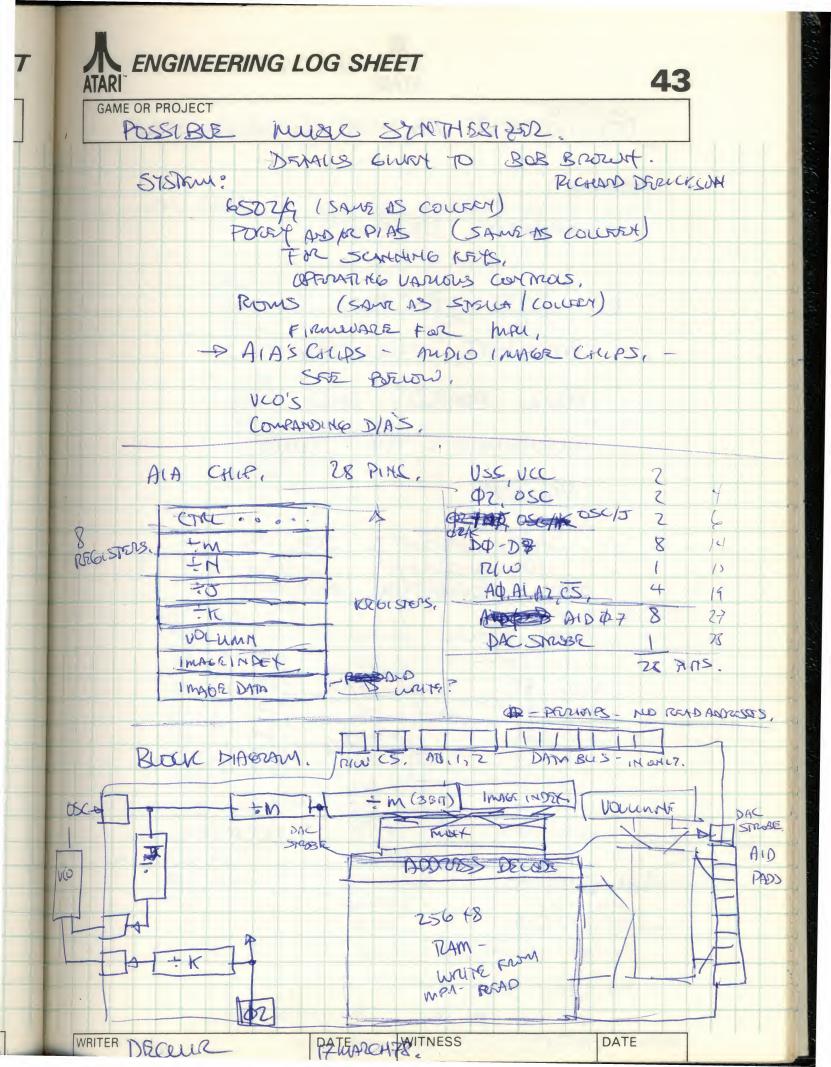
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GAME OR PROJECT ANTIC, Nuit Work. CHOWERS PROPOSED. (PEFFENENCE OLD LOOK, p32) Suffer -LSTLN. IR-7 SVB R SHB LIMONTE ADDITUCES DECOUR ary mo7 MDG CIRA WRITENWII RES MASKS ADDITIONALLY THE USIANIC INTERRUPT IS DISABLED LIBETIL THE PROOFSSUR FRABUES IT BUT ONCE THAT IS DONE -VÓ IT STAYS ENASCED.

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## ENGINEERING LOG SHEET

GAME OR PROJECT DENERSPINENT SYSTEM MEETING IN EN, COMEN INTERMEDIATE DECISIONS 408 5-5 BOOK UB BOARD SET, INCLUDING 6502 BOARD, AND EURNAMUY - THE TRACE warry. DAYS GROUP'S JUB 13 THE DITENTAGE BETWEEN THE TWO. Por BUTAD SIDD BOADS W/3 Dummy SOCKTIS. CPU BONDHAS 2018's, 2ACIAS, 24 Ram, ZKPROM. MULTIPLE CLOCKS SOURCES HOLT AND DUBY WELL, - FILLLIAMES MASOZ WRITER JOSEPH DECEMBER TWITNESS DATE

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GAME OR PROJECT

DEURLOPWENT SYSTEM,

	OH CARD, - Di	SUBLE SIZE	SIDD WIRE WRAP CARD.
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2 1 1	VSS, VCC ΓΌΣS FΦο ΑΝΦ,1,2 CΦο CΦ2 NMI	ROUR ROUR ATTLE 39F ATTLE 39F ROUR ATTLE 39F?	POWER BISSS  From EXTREMENT ONE SHOT  FROM CTIA  TO MPU.  FROM MAY - ALSO TO CTIA AND  TO MAY ?
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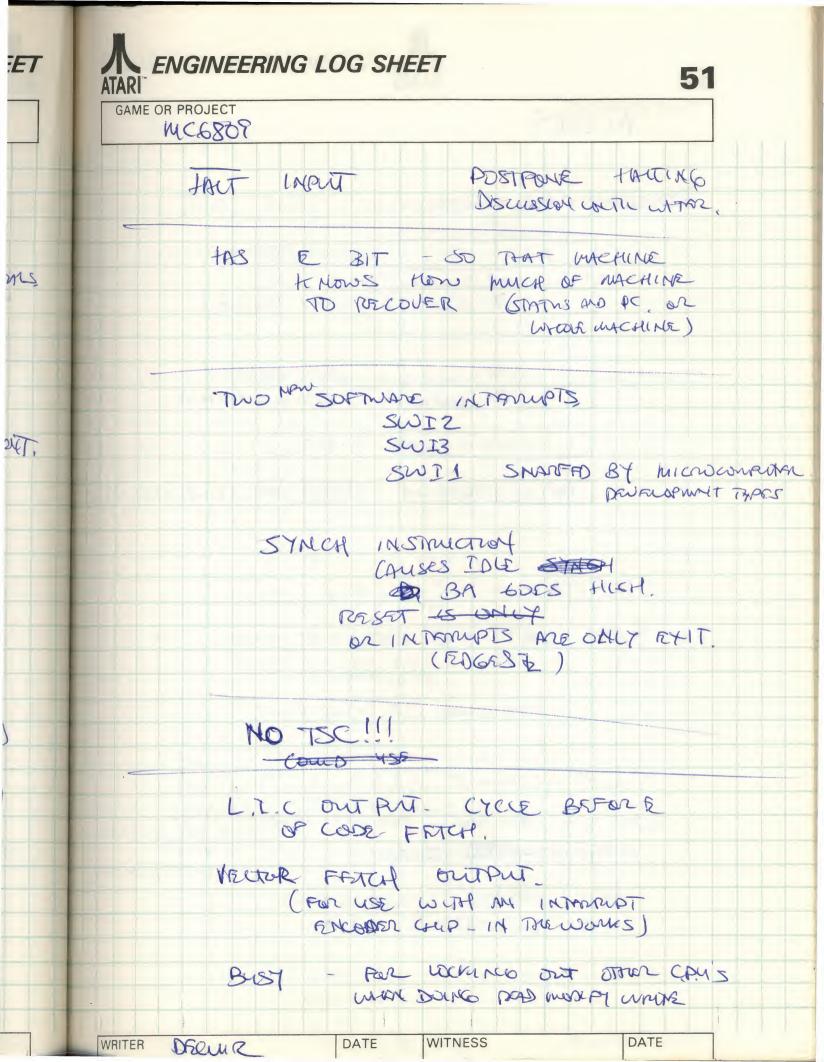
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MI - \$ \$8 009

**50** GAME OR PROJECT Me6809 Skminar BOB BURLING AME from AUSTING APPLICATIONS, DFAMIS HABGOOD LOCAL MPEPFORTAMING HASH PATEL LOCAL FACTORY RES ETNIR BARBARO, SYSTEMS SAUES MER CONFITED BY NOW DESCRIBER ABROTHMENT, ASK ABOUT FACT FUNCTIONS wasp drawnos town writers AND PRESCRIPTION. TWO YMC IMPUTS, 4X BUS CLOCK. on 2X Bus CLOCK EXTERNAL, IMMUNIC (PROGRAMMED BY PRESET) CLOCK ALSO GROSM AT RESOT DRIVE OZ IN DEPONDS ON FORD AND IRO & MASKABUE FIRE - LIKE IRQ PC AND STONE WIT SEPERATE VECTORS RDY INPM - Smakenes \$2

en '09 STORING & I IF 6065 LOW in OI on Dente + STEPES DIRING \$2 IF TRANSITIONS DURING \$2

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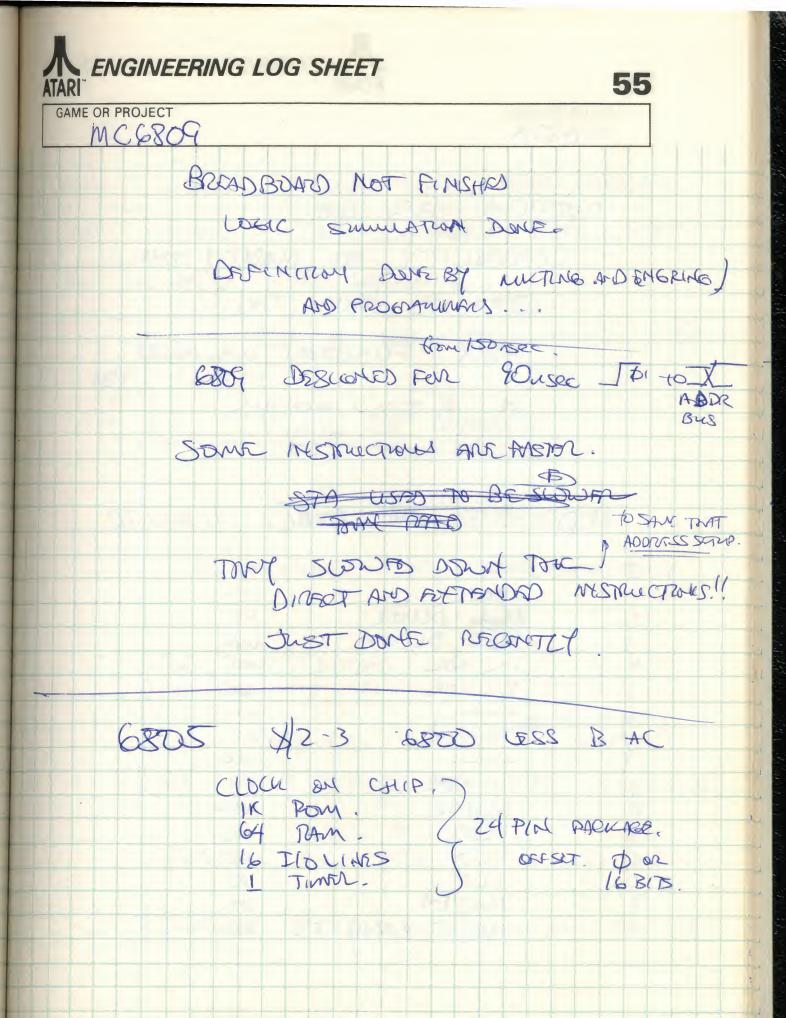
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GAME OR PROJECT
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GAME OR PROJECT

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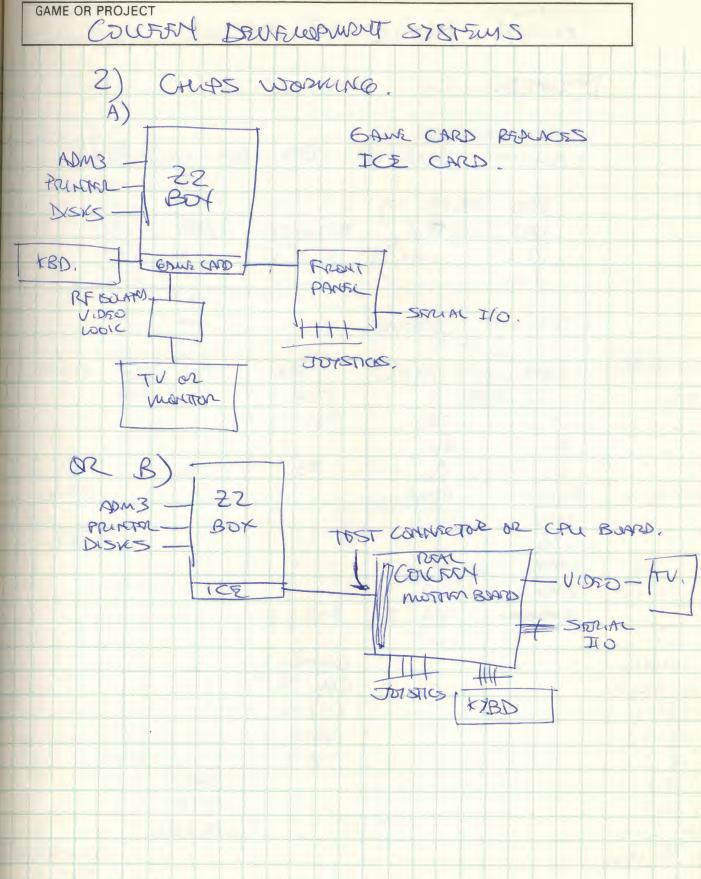
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GAME OR PROJECT

DEVELOPMENT SYSTEMS ( OUTTH. CHIP DEUTECOPHICHT Por TWO BIG CARD CAGES. 1) BRIFAS BOARDS.
14 SLOTS. 144 10'S / CARD ANTIC, TIA, FORCY 100 PIN CONNECTORS (PIA) ABQ-15 DBO-7 & Comment SIGNACS Ryw ( (+ USS, UCC) ФZ CRIMENCO ZZ BOX (BUILT BY GRASS VALLEY) 20 + SLOTS. 100 PIN \$5100 TYPE BUS CPU BOARD Rom, RAM Montron Ilo TRACE BOARD. PROPOSALS: TWO STACES OF DEVELOPMENT 1) CALP DEVELOP MENT! BOCADBOARD BOX ICE CARUE DISKS 7280 CPU CARD ISOLATED VIDEDWOK ADM3 montroe DITINA PRU MTOS ICE CARDO CARD. TIA CARDS FRANT DIA CARD PANTEL -SMU DIO DOKET (ARDS JOISTICES KBD. WRITER PARTY DATE WITNESS DATE

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**GAME OR PROJECT** ZR Mel Snyder Sycrs more 78. LATED OW. JOF WARD THORSON Coupart. MASKS BRITION DE MORR 200 mile 45 SALDUNE SOUR (6+ PIN Production July. ) Expense 1000 ungs ROM UPNSION 7HD SOURCE NECOTIATIONS IN PROSPESS. MOSTER IS ONE 28 not non disclosure 28000 also non disclosure FASTER PARTS LATTER. PLPZ DETUVED FROM PASCAL HAD DISK IN DEWELSPWORT SESTEIN

GAME OR PROJECT MERTIND W/CINCUIT DESIGNERS RE FLECTURAL SPECES VOUNGE SPROS FOR PIAS. CUT PUT / INPUT 1-0 LEWELS 1 15 24 15 2.4 volts ) from IMPUT devived from MPSPECS INPUT & IS 0.4 VOLTS LOGIC 1 INPUT IS 2,0 from Scott. LOSIC & INPUT IS 8,0 & from pup. and OUTPUT LEURL 24 OUTPUT LEUPL 0.4 SLOW WARES, FU NEXES MAREIN dedetron pellup. SPECIAL CASE CTIA - ANTIC FOO Φ, ANTIC - MAY FD 2.40, 0.4 sugar 2,00, 0,8 input WORLD WARDS (CSUP TO CHUP) FOS -PMP, 1, 2 ROY (a) DOVA BUS CHANKI LENDTH (25µ/mile) WRITER TOE DECLUR PATERIAS WITNESS DATE



## ENGINEERING LOG SHEET

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GAME OR PROJECT LIZA LOOP MADITIONAL SOCIETY GLOBAL VILLAGE LIFE WHO LEARNING FLUID ROLES UNPRRDICATABLE POLES UZSS THAT ON GENERATION. MASS MARKET! ATAM PRODUCTS MARIOUNE psycho motor development video games problem sturgtechniques Computer genes of specific content RECROSTION artistiz przyramnila sports and games andro or visual. creative and media (realing, music, to watching stiff) (she sees compitees be yesed to provoke participation) NO CLEAR DUIDING WENE BETWEEN WORK AND PLAY

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Condar multipleyer  Falted pabe  SAFE AND SUPLIFIE	gernes vous popular sut PLATO - dostignit genes. Trout IF IT IS A
Condop multipleyer  Falted abo  CAUTE IS FAMILIA  SAFE AND SUPLIFIE  Of A	gernes vous popular sut PLATO - dostignit genes. Trout IF IT IS A

45W 45W

WHERE TO GO FROM HERE?

- 1). USE game components to systematically enlarge prepartiqued game laboury for recreation.
- 2) Use vocational analysis for marketing prepackaged genes to pavents and schools
- 3) Develop a Game Writers application tauguage for the home computer using there-skill-complexity variables

(best books are ones you wish you had written you self)

## LIZA'S DRAMS

USE ATTART TECHNOLOGY TO RECONSTRUCT OR ETSTING FORWAR FORCATIONAL STSTAM BY BYPASSING THE SCHOOL AND BRUNGING REAL LEARNING HOME.

Current Areas of Study

1) Evilford-Meckey Structure & whole theory of mental abilities

- 2) left-right brain structure theory of leaving pathways,
- 3) Compitalized Delivery Systems

  MIT'S loges

  Yeror's Smallfilk

  Hazeltine's Ticcit (MITRE) (two way cable)

  CDC's PLATO

  Naf (LIBRAPY of Medicane's CAI Demo (AB)

  (PHOT LANGUAGE)

WRITER JOS DECUIR

DAJEAPRIL WITNESS

450 ASIL

REFERENCE: DAVID KAUFMAN TOWNSON A CYBRANKTIC THEATER

CHILDREN WANT TO AUSH BULTONES

Hey need then to leave about there

HOW DO WE THILOR
THIS TO WOMEN?

(SHE IS MORE INTERESTED IN FRORD)

ATHRE (ANT DO MUEH)

9: HOW STEEF EXPLANATIONY ARE THOUT?

ANS: NOT - THAT'S WAY THEY PAIL.

LIZA THINKS WE SHOULD DECETE (OR MITK)
FRATURES SO THAT THE RESULT IS
LEARHABLE

KETBANGER PROGRAMME FOR PRELITERATIONS OR INCORRIGIBLES.

CAUSE AND FOFFERED LESSONSE.

WRITER DOTAL DOWN

DATE WITNESS

WRITER JOSEPH DROWN BATERIATS WITNESS

## GAME OR PROJECT ANTIC CHARGES - to implement offer breadboard comos book. 1). return UBLACK NINT to being maskable. 2) deleted CSTAC PIN. 3) Dring in external HOUT AN (SCHMIDT TRICKER?) 4) STRUBE IT WITH HAIT WINDOW AND A LINE WITHIN VBLANK, LIKE SIT WYNC. RAD BY DATH BITS. EXTRINE RHMI RD5 D5 (SCHEMINT) IRD NIMI SINTUS GOORIN IMM ENMI SVANC or SUB Noni INSTRUCTION. ITHUSE IMMI VEMICAL BLANK

73

GAME OR PROJECT	
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φ	4K RAM			

ON STRENK RAY CASPAR 25K \$5 each 50K 4.50 6551 4.50 6522 25K 100K 400

WRITER JOE DECLUM

DATE WITNESS

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STAN TLATZ METING MER IN CONSUMPR
JOE ROY (DESCHER)
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WITH CHAMETERS,
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(1K r4'S)
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TO GET HIGHER DET PLATE
WRITER THE SECOND DATE WHITNESS
WRITER JOS DELLIN DATE DATE

75

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GAME OR PROJECT	DOE 1204 6	02-244-3716
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DATE

WRITER

WITNESS

GAME OR PROJECT USE DRIVE FROM WEGONILA 4 Lun brusis (INCL BUREN) CORRESPOND TO THE COLORS 64x5x4 - 1 MTROVAN DOWN, (SAFE PAGE IN 6847 WRITINE) 2ND JESTEM - 2 POINTERS (NITS PAM) USING LATCORS AND MUXES ( NOW CHIP!?) THE DYNAME) TO REPUSE Man Stil. VD6 1979 6800 LA CHACKE STOLL UDR Don. VD6 11374 DIA DATE WITNESS DATE WRITER JOS DROUM

Ubrit PER CAPABILITY.

SOFTWARK COUNTY + & INTERMETS,

ASSOCIETE any ming

3870 + VD6 + RAM

6803+VD6+RAM

58 3870 + VD6 + UDR + 1370

"OAYGER OF OVER INTEGRATING"

CURBRUT MAPE FORWARS.

USE CUIS 2400/1200 BAND.

BAND RATE 300 BAND

SER ADDA SPEC WRITTEN BY SIMONE

new features.

VARY CHAMPTON SIZE

CHARACTER SET

Curson MAYE

MEMORY MAP MODES

SPECULAR GRAPHICS FIRED (W/BITCHS)

DATE

THAT ENICH STURM PAC

A URISATIVE CONTROL CHARACTER SET & WILL

ALLOW ALL PATTS OF MARRINE

TO BE USED BUENTUMY.

WRITER JOSEPH DROWN BATEY 78 WITNESS

79

GAME OR PROJECT DORSELT.

> ( HE'S GOING TO TO DO CAI WITH A TRE-80) TRYING TO ADD AUDIO TO IT.

CHECK ANTIC VIDEO CODE LOGIC

BLANK - TORN WURT, RATHER THANKIN VENT, AND BURNER

this Bib purstion, ARE ALL THE BRUS AND WHUSTLES MECRESON? LOL DEFICIENT

DRA, USR UNUSRO LINES IN TRAT FIRED (OR PSEUDO UNED LA TOR DOPAT SPACE. AS WCACTURED & COMPRON "RESISTENS

WRITER DE DECEM BATEY

WITNESS

GAME OR PROJECT Collect Development System

EVALUATION / CHARACTERIZATION OF

BUS INTEVENCE

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TO BE BACKPUNE

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31 149 78

WRITER

DATE

WITNESS

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Drawnos.	KETBOARD LATOUT ASSISTED WECHANG	

WRITER

Drews

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	E OR PROJECT
	OUTER SYSTAM.
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	MILES GROUP RESEDUBIBLE BUT PAM CAPA,
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2.	CHEEK RAM THURKS
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	6 REGARD TO REST OF SYSTEM.
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	u RESPECT TO SYSTEM.
4.	PLA ADDRESSES.
	REVERSE ADDRESS LINES
	AS PER MANUAR.
5.	SAME PORT CHAMBS,
	AS PER
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	MGO ETC.
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	ADDRESS WAP. AS PETZ MAYLUM,
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9,	town DA S3 Druss
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WITNESS

DATE

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PROJECT
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ourse sistem crimoss.
UP DATE LIGHT PAY STUFF
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PULL STAC OF CPU BOARD COMMECTOR.
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UP DATE NOMEN CLATURE.
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WITNESS

DATE

WRITER

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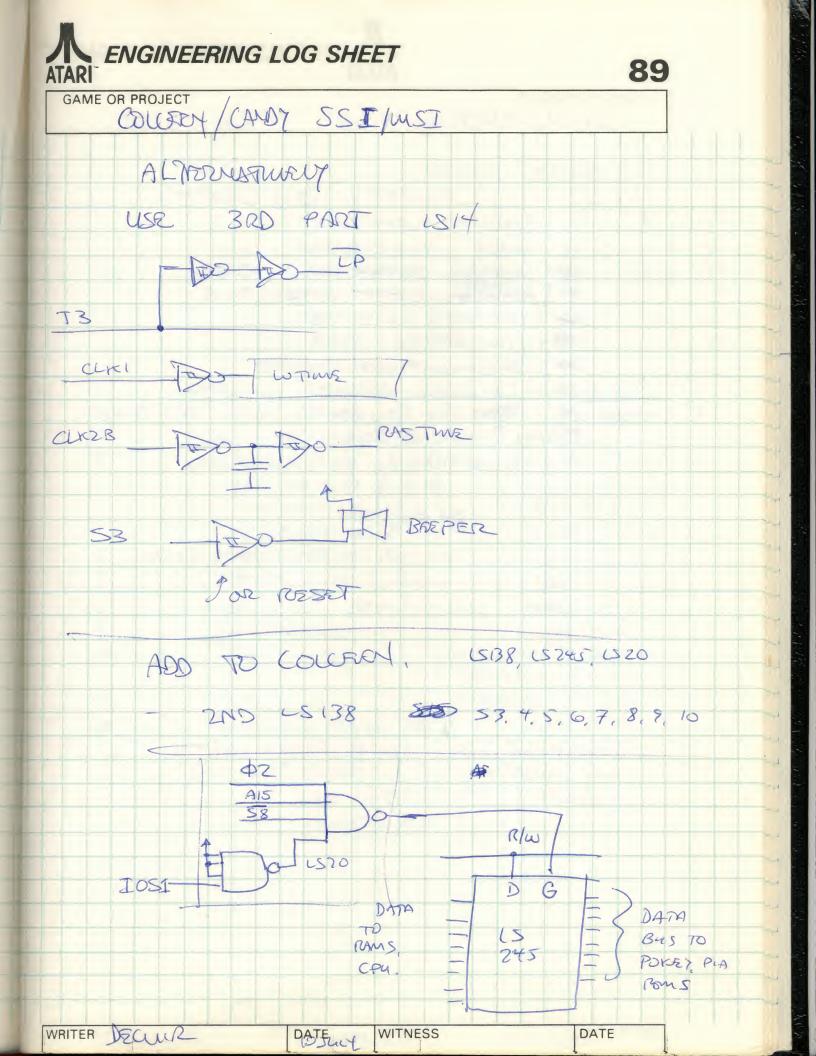
GAME OR PROJECT  X-7 JOTSTICKS  WADR, DAVE, JARRY CRANG, ROY, DOE
TWO PROBLEMS From OUR RND,
1) CHANGE CAPACOON SIZE OR
ADDUST POT VALUES
TO KEEP IT CENTERABLE
2) when to we bet entired
PROFOS FOR PROGRAMMING
Purposes.
NOTE, I NEED TO CAUBRATE  THE HET VAINES FROM  POKEY
TEST PROGEDURE THAT MOVES A
PLATER AROUND, - AUTO ZERVOING ON RESET.  -ADJUST TO 60° M 80° POIS.  AUTINGLIAGO, MOT AUTINGING  CAPACITORS ± 526  SAMPUR BOTON POIS CILINE.  MOURE CURLOR AND DUSPLAY VALUES,  OPTIONS, 60° 90°  LOSS FOR OFF SET
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PATELUTAS WITNESS

WRITER DECUIR

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WRITER DECLUS	DAIE WITNESS	DATE
WRITER DECUR	DATE	DATE



AIAKI
GAME OR PROJECT
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# 2 CARDY MOTHER BARD
#6 C #7 COLLEGEN SUPER BOARD SIDE
17 C 100 8 GUARD SUPPER BOARD SIDE
#3 COD IS 3 CPU FANTIC TIN BOARD
#5 C #64 RAM CATK/16 BOARD
#4 C DEPENDENTY MONUE BOARD
12 186 CARTRIDGE BOARD /2
#8 & C TABA BOARD, 2716 CART BOARD
#340 CONTROLOTS: A X-Y
IL9 KEYBOAND ( B KEYBOAND
< LIGHT PRY
1013
) E DISTATIVE CONTROL.
COLLEGA
CANDY
CPU CPU
Ran
roms
COLLEGE SUPPORT
CANDY SUPPORT
KATBOARD
WRITER DECLIN PAJENTS WITNESS DATE

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-3	CALED ON STRUES)	
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	OUTPLINES WE SENDER SUREY	Sperin
	OTHER DEVICES ) J MOSES.	MUST BE
5.	CHOOLE SYSTEM? STELLE	PATIENTED
6.	ANTIC INSTRUCTION SET. JOE	ार गढ
7.	PLATER MISSIE DIA.	
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	MICROPROCESSER HALT DAY	
13	PAR COLOR DELAY LIKE JAT	
	(KERP DUEDED TELEPUNKEN	
	HAS PATENT OF PAL CO	iel
	modulphon)	

WRITER DECLUR

DATE 11JULY 78

WITNESS

GAME OR PROJECT DOZUMENTATION.

HIVES, DO YOU NEED COLOR ADJUST ON CAY CARD

NIUSE WANTS ADDRESS MAP,

Power Of 4K ROMS,

LINE LIWIT TO SE TODALS.

NIUTES MANUES TO MONE CHIP TO PRISONER

CANDY'S ROM IS ON MOTOR

CHIP DROSSING FON CANDY,

REDIFUS RESTREST THING FROM ANTIC,

OH CANDY SWITCHURS, XMMIL

LOOK AT CAPACITINE LOADING,

WHAT HAPPENS IF BUFFERINGS IS CHANGED SO THAT OUT PUBS OF ROM GO THAY WHIDIRE CTLONY BUFFERS GRIT PUD OF 65245

WRITER DATE WITNESS DATE

RAMS, 20-25 PF / DATH BLOS PIN

LOOKIND HEED FOR 1.8K'S

CAN THAT BE BETWEEN

CHIP AND CAPACITONS

GPST RB SCHRUSTEC FO

For CADY From Agui

PANFIS JUNTERS GO ON KEVBOARD CONHECTOR IN CANDY

CONNECT - WTIME TO BOL

DELETE LEAVE ON CONNECTOR,

BRYNG DO ST THE CARD.

OT 212YJANA MA EDMU TAC

VESTIFY THAT THE PROPOSED UNDINSCHOUNT

BUFFER SCOVEME FOX CAND? DOES

NOT OUSE ANY MOUBLE, PARTICULARLY)

ON SKITH BETHEREN DAMA AND CLOCK ON WRITES.

WRITER DECUR PAJE178 WITNESS

GAME OR PROJECT COLFER, PERSONALLY MORLE

USE of AM9511 APY 'ARITHWETTIC PROUSSING LIKET'

GOFAT DEAL OF TROUBLE,

IT LINES TO YANK ON ROY for EXTENDED PERCOSS. - >> 5000SEC

WRITER

DATE MAITNESS

Duns CASSETTE FREQUENCIES

SPECS

600 BALLD from CH3 CH+ togethou.

CHI WOIC 1 = 5326 HZ = 8+6608 HZ

CH2 LOGIC 4 = 3995 HZ = 6 \* 665.8 HZ

RUNNING CHI AND CHZ OFF 64KHZ 63.9204

3,58mH2/2/28 3328 = 6 = 5+1

FOUT = FIH 2(AMDFH) 3995 = 8 = 7+1

PURNING CH3 ON CH4 to GETHER OF 1.79 MHZ

FOUT = FIN FIH 2(AUDF+7) 2 (MOFHY) IF CHYONLY

1491,47 .000 32 Error

(AUDF an +1) = 3.579575 mHz/2/28 6 ANDF = 5 2 (5326)

(AUDFCH2+1) = 3.5755+5m+7/2/28

- - 28 2(5326)

ANDFCH3+7 = 3.5715\$5/2 = 1491.47 MDFCH3+ = 1484

2 (600)

AUDFOHZ = \$7

WRITER

BCNIA.

	חחתו
GAME OR PROJ	
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VOUT S	more interest =357PS 1420, Course 1820,
>\$120m/	YR 1420, PROFESSIONAL AND BUSINESS 1626
512 0	f computer DOCKS, 1976 of FURNYBODY ELSE
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	DUCTOCOTIA: 2281 BRUAD WILL IN:
	IT IN COMMON FUNCTIONS HIGHER IN WOWNT, BLUECOUP
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	OPIE FETABERIME THAT INTOREST
	E AND CLERACK MOT INTERESTING, BUT ARE APPEALING
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	ST IN PROGRAMS HOT STANFOLD POR SUMPROCEDS
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DATE

WRITER

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16 marcs				3210		future
Aignus	62	72	7	7	2	Offer USES/FITATURES
17Decotton wath	46	29	13	10	2	VETBAL INSTRUCTION
CONTROL HEATING IK					1	VETTSAL RESPONSE
Prof strater	44	29	12	13	2	BUILTINGOTV
Small Appliances	35	32	15	160	2	UNLOCK DORS UFREALLY
CHERKBOOK BUDGETING	26	79	16	15	2	Stlor From House
FIDUR, CHILDREN	42	23	10	21	4	Room BY BOM TRM - CM
FOOD I HUENTERY	28	27	19	25	(	FUECPROVIC MUSIC
APPIT CHUMPAR	26	28	24	21		PHATEL
WAILING C1513	25	28	24	21	2,	THURTO DAVER COLOURERS
Common Kitchery	26	25	23	24	2	
BOARD, CARD, STRATES	20	25	30	53	2	
_ CAIC, CALORIES	17	23	23	32	3	
PUST ACTION GIOVES	16	u	20	36	1	
PRECEIRS	10	19	28	3+	3	
Sparts STATISTICS	14	18	22	44	2	

WITNESS



GAME OR	PROJECT	
81	MITTEN	(ONT)

	Fw	FM Bo	700		Dis	care	F	Colfi	DON CE			
BATTTUDES	TOW		min:	5:	()	which		7	+COSPT			
	10	19-7	6-4	3-0	5	H RAPEDOF	10	1957	\$ 5	3.0	-BEN	INAUN CE HOS
IBM	49	29	6	+	7	9	49	31	6	1	9	4
KFROX	42	37	6		5	9	43	44	5	6	6	5
_TI	29	39	7	2	6.	17	29	45	5	2	7	12
SONY	26	47	10	3	4	10	26	36	*	2	5	4
RCA	20	46	18	2	6	8	17	35	17	3	6	2
RADIO SHAEK	10	31	30	12	8	٩	9	35	30	13	10	3
HP	10	16	9	S	3	52	14	17	8	7	8	46
SEARS	9	36	30	9	6	(0	8	42	32	9	6	3
LAFATORIE	6	22	21	7	8	36	6	28	21	7	7	31
PANKERBERS	5	17	29	19	11	19	7	15	31	20	12	11
MIGTON BRODURY	5	16	28	22	10	18	5	17	31	21	13	13
WITEL	5	16	21	24	12	22	6	20	22	22	14	14
HIMCHEL	24	25	20	6	13	32	4	30	23	6	14	23
HRATH !	4	14	14	7	9	52	4	18	13	7	13	45
AMZI	2	11	9	7	10	611	2	14	8	7	15	54
Commencers	1	4	9	9	8	69	(	3	7	9	11	69
APPUE	(not	- 140	cur	((	FEE	FOTOKS		LIBER	7 Bu	lers !		
P PRESENCE	D ALA	UBETU	CAWY.									
ATTARI -	2410	+1148	+529	+2×7	= 3	7	to	- RY	BRET	TO	Bur	
1) IFICE		29			_ 0		St	ires	From			10
									ADIO	STUR		
IBM	49 410	748+7	9+6	5 -	8.9	11						
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		8	T									
TI	29.80	D + 39	×8 + i	1×5+	2.*2	<b>V</b> 2						
1-			7			0,3						
000												
RADIO SHARK 10410 + 3148+3045+1242 = 6.2												
			83									



99

GAME OR PROJECT

SURVEY (LONG)

Women BEBAD HONDHOLDING (SALES PEDELE) WORE INPURPORT

WOMEN WORE UNTERSTED IN PREPROGRAMMED

WOMEN WORE INTERSTED IN PREPROGRAMMED

WOMEN WORE INTERSTED IN CASS ROOM INSTRUCTION

STRANGURY DARITE LOS PERLATURY LOS INTENSTIN 'CAMES' PROST FLUENTBOOD BELLEUES THAT SHOULD BE FUH.

WRITER

DATE

WITNESS

GAME OR PRO	S SUF ODESSEY 2. DESECTION
	2 9 PIN D CONNECTORS
	for courses, without Pintout
CSL.	INARDS: (STBMESDRAM)
Zkpin	"8244" DETEC CLESTOM PROBBBLY VIDEO CHIP
24 pin	"SCM 6770SP" MOTOROLA PART
	Small ressistate METWORK.  2(74C17SS) - near keyboard
MAGNALOT	1 612230-1 MOTOROLA PART  1 7465148 PRIORITY FACOURE  1 746532
	30 PIN CARMIDER COUNTERTOR
	MISCREGOLEURS ED DAMS WIDER SHELD
	18 PIN FLEY TO KEYBOARD

101

GAME OR PROJECT GEHERAL PURPOSE INTERFACE 1) STRUCK PROPOSAL 14100 retail CHEAP BOY 6500/1 w 5 348A DRIVERS. 4500 BAND PS 232 Star 16 PARALEC 02 MIKER /45/1940 488 + 2 3AMP AC SOON PRICATS. + + - + - - -2) 4 JORS INTOLUNDATE PROPOSITE ~ \$150 650+ +2316+6532 + 3 x 6551 3 HIGH PARFORMANCE PSS232 28) replace 2455is 07 68488 + 47 3448A 3) General bribse Ito Intervole 6502 + 7332 + 2+2114 + ANTIPONE 4 GENETIC PURPOSE SLOTS. 4 TYPAS of DLO DELICES: RS232 (6551) 6P1B (68488 + 4 x 35+48A + Sw. Tarks) 16 MME DIGIM (6520+ BUSEARS) 16 CHANNEL ADC (MUX+ BAC+ PIA)

PATESTS

Discuss

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**GAME OR PROJECT** 12.096 XIAL 90-102 ATARLE PART # PROPOSAL FOR STOPS OUT HIGH POLLEGE FATHERMANT COMPAGES 2800 6800 CEASS CPU Two pour Moundy Semons VI Dre DISK STRIAL Audio X DWA CHAMPEL CHAMPLE SOFFER CHAMNEL MUSIC COAT OPTICAL TIA3 SPAKKIS HARD/ SERVAL LINKS Bishs VIDED OUT BILL BATTES, DAME

300 SAN MATTED NE

SWITE 819

ALBUQUEQUE

ALBUQUEQUE

NM.

\$ 87108 505-262-1486 PAT HALET TI SUPPLY 732-5555

PRETE RUSENTHAL 7885

MORGAN HOFF, 2776
RICHMOTCRIESF x 7642
SHOLOM KASS
x 2263
+48
6847

MIKE SATTEN

KNICKERBOCKER TOTS,

NRWYDEK CITY OR MIDDURSEY, NJ.

212-

RAINS 2799 STUBBEN 2766

